



DESCRIPTION

Direction Finding Antenna System

The DF260C is a tactical, On-The-Move (OTM) Direction Finding (DF) antenna system for use with DRT receivers to locate the source emitters for signals in the 100 MHz to 2200 MHz frequency range. This DF antenna is optimized for 100 MHz to 500 MHz. The DF260C is designed for use with DRT4411B-R and 4413B-R receiver systems.

The DF antenna connects to the DRT receiver using coaxial RF and control cabling. The system includes an integrated electronic compass. The system is powered through the DRT receiver. The DF260C is a manpack antenna that may be used by an operator who is OTM with the DF260C attached directly to the top of his rucksack or raised on a short mast attached to the rucksack. The DF260C may also be mounted on the DRTpack roll-up mast for added height.

The DF260C is weather-resistant for continuous outdoor operation and is water resistant to 1 meter for a period of 30 minutes.

Features

- Tactical, Man-Portable, OTM
- Low visual signature
- 100 MHz to 2200 MHz operation
- Capable of Tracking Multiple Targets
- DRT Receiver Compatibility
- Integrated 3-axis compass
- Manpack OTM (rucksack mounted)
- Can be adapted to multiple mounting scenarios

| DF260C Specifications | |
|--------------------------------|--|
| Frequencies | 100 MHz – 2200 MHz |
| DF Modes | Commutated DF |
| Polarization | Vertical |
| Mounting Options | Manpack OTM, Mast, Fixed Site, Vehicle Mount (pole mount) standard. May be adapted for Airborne or Shipboard mount. |
| Power Consumption | 3.0 W max |
| DF Accuracy (RMS Error) | Typical Performance: $\leq 6^\circ$ 100-2200 MHz (Mast-mounted, off-body) $\leq 13^\circ$ 100-2200 MHz (Rucksack-mounted, on-body) |
| Sensitivity | Contact DRT for detailed information on typical sensitivity with DRT Receiver. |
| LOB Rate | 14 LOBs per second |
| Navigation | Compass |
| Operating Temperature | - 4° F to +140° F (-20° C to +60° C) |
| Array Size | 7.86 in (19.96 cm) W x 8.26 in (20.98 cm) L x 8.09 in (20.55 cm) H, max. |
| Weight | 5.375 lbs. (2.44 kg) |
| Compatible with | DRT4411B-R, DRT4413B-R |
| Water Resistance | Immersible up to 1 meter for 30 minutes |
| Colors | Black, Desert Tan, various Camo patterns |

DRTview Geolocation Mapping Software

The DF antenna includes *DRTview*, DRT's geolocation mapping software tool. *DRTview* takes geolocation data such as LOBs provided by one or more DRT receiver systems (live or from logs) and displays the data on a map or image. Using a single type of data or a combination of these data types, *DRTview* calculates and displays real-time updated geolocation estimates (fixes), their respective uncertainty ellipses, and filtered data. See the *DRTview* data sheet for more information.

Standard Cable

- Cable Assy – DF Interface Cable, DSUB/MS, 50 ohm, 4 ft. (1.22 m)

Optional Cables

- Cable Assy – DF Interface Cable, DSUB/MS, 50 ohm, 6 ft. (1.83 m)
- Cable Assy – DF Interface Cable, DSUB/MS, 50 ohm, 12 ft. (3.66 m)
- Cable Assy – DF Interface Cable, DSUB/MS, 50 ohm, 25 ft. (7.62 m)

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